

Appl. No. 09/488,973

REMARKS

The Examiner indicates in the Office Communication of December 3, 2002 that Applicant's reply filed on June 26, 2002 was not fully responsive to the prior Office Action. Specifically, the Examiner contends that Applicant failed to appropriately show amendments to the specification at pages 6 and 9 in the marked-up copy of the amendment. Applicant respectfully submits that the Examiner is mistaken. Applicant has included herewith copies of the marked-up copies of the amendments from the June 26, 2002 reply to assist the Examiner in reviewing Applicant's comments.

The Examiner is referred to the second line of Applicant's marked-up version of the amendment to page 6, wherein Applicant indicates that the word "the" is removed from the second sentence of the paragraph beginning on line 13 of page 6. The Examiner is also referred to the marked-up version of Applicant's amendment to page 9, and specifically to the first line of the marked up paragraph wherein the word "is" is removed from after --70--.

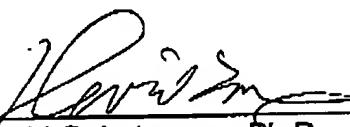
Applicant's marked-up versions of the amendments to the specification show changes made to the specification by the amendments, and therefore are in compliance with 37 C.F.R. §1.121. Applicant therefore requests withdrawal of the Examiner's contention that the reply filed on June 26, 2002 was less than fully responsive to the Office Action.

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Respectfully submitted,

Dated: December 12, 2002

By:


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encls. Copy of the marked-up changes to the specification filed with the June 26, 2002 reply.

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DEC 12 2002

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Appl. No. 09/488,973

Application Serial No. 09/488,973
Filing Date January 20, 2000
Inventor..... Chris Parfeniuk et al.
Assignee..... Honeywell International Inc.
Group Art Unit..... 2823
Examiner D. Collins
Attorney's Docket No. 30-5016-(4015)
Title: Methods of Bonding Physical Vapor Deposition Target Materials to Backing Plate Materials

COPY

VERSION WITH MARKINGS TO SHOW CHANGES MADE ACCOMPANYING
RESPONSE TO APRIL 2, 2002 OFFICE ACTION

In the Specification

The replacement specification paragraphs incorporate the following amendments.

Underlines indicate insertions and ~~strikeouts~~ indicate deletions.

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The paragraph beginning on line 13 of page 6 is amended as follows: DEC 12 2002

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A method encompassed by the present invention is described by a flow diagram in Fig. 2. At an initial step (labeled 30 in Fig. 2) work hardening is done to the a target material. If, for example, the target material comprises aluminum, work hardening can be introduced by compressing the aluminum from an initial thickness to a second thickness. Such compression is illustrated in Fig. 3, wherein a target 50 is illustrated before and after compression, with an arrow 52 provided to indicate the step of compression. Target 50 comprises a first thickness "X" prior to the compression 52 and a second thickness "Y" after the compression. The compression can be accomplished by, for example, cold forging or cold rolling. The final thickness of target 50 ("Y") can be, for example, less than 2% of the initial thickness of target 50 (i.e., a 98% compression), and is typically less than

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or equal to about 40% of the initial thickness of target 50 (i.e., a 60% compression). In particular embodiments, target 50 can be subjected to a 95% compression (i.e., compressed so that final thickness "Y" is about 5% of initial thickness "X").

The paragraph beginning on line 1 of page 9 is amended as follows:

Assembly 70 is can be formed in, or placed in, an atmosphere which is inert relative to oxide formation from materials of plate 60 and target 50. In embodiments in which plate 60 and target 50 comprise high-purity aluminum, or aluminum alloys, the inert atmosphere can comprise a vacuum, or consist essentially of, for example, one or more of nitrogen gas and argon gas. The inert atmosphere preferably does not comprise oxidative components (like oxygen), as such could adversely cause oxidation of the materials of one or both of the blank 60 and target 50.

In the Claims

No changes are made to the claims.

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